Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

3 Sheet 1 of

Complete if Known				
Application Number	10/670,701			
Filing Date	September 24, 2003			
First Named Inventor	Xing SU			
Art Unit	1637			
Examiner Name	J. Fredman			
Attorney Docket Number	070702006700	-		

		<u> </u>		TENT DOCUMENTS	Pages, Columns, Lines, Where
xaminer hitials*	Cite No.	Document Number  Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Relevant Passages or Relevan Figures Appear
/JF/	1.	US-3,817,837	06-18-1974	Rubenstein et al.	
<del>- / U - /</del>	2.	US-3,850,752	11-26-1974	Schuurs et al.	
	3.	US-3,939,350		Melvyn et al.	
	4.	US-3,996,345	12-07-1976	Edwin et al.	
	5.	US-4,275,149	06-23-1981	Litman et al.	
1	6.	US-4,277,437	07-07-1981	Maggio	
$\top$	7.	US-4,366,241	12-28-1982		
	8.	US-4,683,195		Mullis et al.	
	9.	US-4,683,202-A		Mullis	
	10.	US-4,800,159	01-24-1989		
	11.	US-4,883,750		Whiteley et al.	
	12.	US-5,270,163		Gold et al.	
	13.	US-5,279,721		Schmid	
	14.	US-5,306,403	04-26-1994		
	15.	US-5,401,511	03-28-1995		
	16.	US-5,472,881	12-05-1995	Beebe et al.	
	17.	US-5,539,082		Nielsen et al.	
	18.	US-5,567,588	10-22-1996		
1	19.	US-5,603,872	02-18-1997	Margalit-	
	20.	US-5,670,637	09-23-1997	Gold et al.	
	21.	US-5,696,249	12-09-1997	Gold et al.	
<b>T</b>	22.	US-5,714,331		Buchardt et al.	
	23.	US-5,719,262	02-17-1998	Buchardt et al.	
$\neg \neg$	24.	US-5,840,862	11-24-1998	Bensimon et al.	·
	25.	US-5,843,653	12-01-1998		
T	26.	US-5,866,336	02-02-1999	Nazarenko et al.	
1	27.	US-6,002,471	12-14-1999	Quake	
1	28.	US-6,013,456		Akhavan-Tafti et al.	
	29.	US-6,054,327		Bensimon et al.	
1	30.	US-6,054,495	04-25-2000	Markowitz et al.	
┪┈	31.	US-6,127,120	10-03-2000	Graham et al.	
	32.	US-6,149,868	11-21-2000	Natan et al.	
一	33.	US-6,174,677	01-16-2001	Vo-Dinh	
$\neg$	34.	US-6,187,823	02-13-2001	Haddon et al.	
1	35.	US-6,225,055	05-01-2001	Bensimon et al.	
	36.	US-6,248,537	06-19-2001	Bensimon et al.	
	37.	US-6,258,401	07-10-2001		
	38.	US-6,263,286	07-17-2001	Gilmanshin et al.	
	39.	US-6,265,153	07-24-2001	Bensimon et al.	
	40.	US-6,283,812	09-04-2001	Jin et al.	
	41.	US-6,297,592	10-02-2001	Goren et al.	
丁	42.	US-6,303,296	10-16-2001	Bensimon et al.	
-	43.	US-6,344,319	02-05-2002		
1	44.	US-6,358,375	03-19-2002		
77	45.	US-2003/059778	03-27-2003	Berlin et al.	
V	46.	US-2003/113740	06-19-2003		
71F/	47.	US-2003/148289	08-07-2003	Sundararajan et al.	I

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Sheet	Sheet 2 of 3		3	Attorney Docket Number	070702006700	

		FOREI	GN PATENT	DOCUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>8</sup> (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	<b>™</b>
/JF/		WO-97/19193	05-29-1997	Yale University		
17	49.	WO-01/25002	04-12-2001	SurroMed, Inc.		
	50.	WO-03/13740	2-20-2003	Advanced Syntech, LLC		Ш
/JF/	51.	WO-04/038037	05-06-2004	Intel Corp.		

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		NON PATENT LITERATURE DOCUMENTS				
Examiner Cite Initials No.						
/JF/ <sup>52.</sup>		Bensimon et al. (1995). "Stretching DNA with a Receding Meniscus: Experiments and Models," <i>Physical Review Letters</i> 74(23): 4754-4760.				
	53.	Benson et al. (2001). "Design of Bioelectronic Interfaces by Exploiting Hinge-Bending Motions in Proteins," Science 293:1641-1644.				
	54.	Berger and Kimmel, eds. (1987). <u>Guide to Molecular Cloning Techniques Vol. 152.</u> Academic Press Inc.: New York, New York. pp. v-xi, Table of Contents.				
	55.	Brody et al. (2000). "Aptamers as therapeutic and diagnostic agents," Review in Molecular Biotechnology 74:5-13.				
	56.	Cao et al. (2002). "Nanoparticles with Raman Spectroscopic Fingerprints for DNA and RNA Detection," Science 297:1536-1540.				
	57.	Craighead, H.G. (2000). "Nanoelectromechanical Systems," Science 290:1532-1535.				
58. Freitag et al. (2000). "Local electronic properties of single-wall nanotube circuits measure		Freitag et al. (2000). "Local electronic properties of single-wall nanotube circuits measured by conducting-tip AFM," <i>Physical Review B</i> 62(4): R2307-R2310.				
	59.	Harlow and Lane. (1988). Antibodies: A Laboratory Manual. Cold Spring Harbor Laboratory Press: Cold Spring Harbor, NY. pp. iii-ix, Table of Contents.				
	60.	Johnson and Kahn. (1993). "Peptide Turn Mimetics" Chapter 14 In Biotechnology and Pharmacy. Pezzuto et al eds., Chapman and Hall: New York, NY, pp. 366-378.				
	61.	Lee and Meisel. (1982). "Adsorption and Surface-Enhanced Raman of Dyes on Silver and Gold Sols," The Journal of Physical Chemistry 86(17):3391-3395.				
	62.	McBride and Caruthers. (1983). "An Investigation of Several Deoxynucleoside Phosphoramidites Useful for Synthesizing Deoxyoligonucledotides," <i>Tetrahedron Letters</i> 24(3): 245-248.				
	63.	Michalet et al. (1997). "Dynamic Molecular Combing: Stretching the Whole Human Genome for High-Resolution Studies," Science 277: 1518-1523.				
	64.	Nicewarner-Peña et al. (2001). "Submicrometer Metallic Barcodes," Science 294: 137-141.				
V	65.	Nielsen et al. (1991). "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide," Science 254:1497-1500.				
/JF/	66.	Parker et al. (1991). "High-Yield Synthesis, Separation, and Mass-Spectrometric Characterization of Fullerenes C <sub>60</sub> to C <sub>266</sub> ," <i>Journal of the American Chemical Society</i> 113(20):7499-7503.				

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Sheet	3	of	3	Attorney Docket Number	070702006700	

/JF/	67.	Sambrook et al. (1989). Molecular Cloning: A Laboratory Manual, 2nd Ed. Cold Spring Harbor Laboratory Press: Cold Spring Harbor, NY. pp. xi-xxxviii, Table of Contents.	
/JF/	68.	Schoenfeld et al. (1996). "Formation of Si Quantum Dots in Nanocrystalline Silicon," Solid State Electronics 40:605-608.	
/JF/	69.	Voldman et al. (1999). "Microfabrication in Biology and Medicine," Annual Review of Biomedical Engineering 1:401-425.	
/JF/	70.	Zhao et al. (1995). "Nanocrystalline Si: a material constructed by Si quantum dots," <i>Materials Science and Engineering</i> B35:467-471.	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Signature	/Jeffrey Fredman/	Considered	00/20/2001

<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.